

**Engineering Statement
In Support of an Amendment to
A Pending Application for a Construction Permit
WGZZ, Channel 232A, Waverly, Alabama**

General

This amendment to the pending construction permit application (BPH20081216BKY) is being filed to change the proposed transmitter site, increase the heights and decrease the effective radiated power. As a result of the move, WGZZ will be short-spaced to WJOX (Channel 233C0) Birmingham, AL. Station WJOX will be protected under Section 73.215. The included exhibits demonstrate that this proposed facility complies with all FCC rules regarding spacing, coverage, human exposure, and environmental impact.

The Proposed Site

Exhibit E, Figure 1 is an allocation study showing fully spaced allocation coordinates for channel 232A at Waverly, AL. The map in Figure 2 is the hypothetical 70 dBu contour for the proposed facility from the allocation coordinates showing 100% coverage over the community of Waverly. Figure 3 is a channel spacing study from the application coordinates showing short spacing to WJOX. As demonstrated in Figure 7, there will not be any overlap of the relevant contours. In addition, the vacant allotment (Ch. 232A) has been changed to Channel 262A, WGZZ's current channel in order to accommodate the instant application to change WGZZ's channel from 262A to 232A. See Report and Order in MB Docket No. 09-54, released August 31, 2009 (DA 09-1838). The map in Figure 4 and supporting data in Figure 5 show that WGZZ still offers full coverage to Waverly from the application coordinates with the predicted F(50,50) 70 dBu contour. Finally, a vertical sketch of the proposed tower is provided in Figure 6. This figure shows WGZZ is requesting to move to ASRN: 1257731, which is also occupied by WELL (Ch. 204C1), Waverly, AL.

Protected and Interfering Contours

Exhibit E, Figure 7 is a map displaying the protected and interfering contours of the proposed facility. The map shows no overlap to or from WJOX with the proposed facilities.

Human Exposure

The proposed FM facility (including the WELL antenna) was evaluated in terms of potential radiofrequency radiation exposure at ground level. Exhibit E, Figure 8 is an exhibit showing the extent of human exposure to RF radiation at the proposed site. Using the power density value from RF Worksheet #1 for WGZZ and the maximum power density for WELL (based on WELL's antenna elevation pattern), a total exposure level of 6.61% of the maximum permissible exposure was derived. This is well below the allowable level for both controlled and uncontrolled/general population environments. A policy will be placed in effect stating that if anyone is required to climb the tower, the facilities on the tower will reduce power or cease operation to prevent hazardous exposure to radiofrequency radiation.

Environmental Impact

(No Exhibits)

The facility in this application is proposing to move to an existing tower already registered with the FAA and FCC. No additional environmental impact is expected. During operation, the facility will produce no chemical or significant thermal pollution, and no ionizing radiation will be generated. Areas of high intensity radiofrequency fields will be confined to the immediate area of the transmitting antenna, far above the ground and away from any human and wildlife population.

Conclusion

This statement/application has been prepared for Auburn Network, Inc. by utilizing the latest available information, cross-checked with the Federal Communications Commission and other sources. Therefore, it is submitted that the engineering data compiled and demonstrated herein for the proposed is in compliance with Commission's Rules and Regulations at the time of this application's filing date. We welcome the opportunity to discuss with the staff of the Federal Communications Commission the engineering data contained in this application. Should any questions arise concerning the information, please contact us.

For Auburn Network, Inc.:



Alex Welsh

November 16, 2009

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Birmingham, Alabama 35238
(205) 618-2020

**Engineering Statement
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WGZZ, Channel 232A, Waverly, Alabama**

Allocation Study

REFERENCE				DISPLAY DATES				
32 42 11 N				CLASS = A		DATA 10-09-09		
85 29 55 W				Current Spacings		SEARCH 11-11-09		
----- Channel 232 - 94.3 MHz -----								
Call	Channel		Location		Dist	Azi	FCC	Margin

AL9330	VAC	232A	Waverly	AL	0.89	54.2	115.0	-114.11
Of no concern:								
Channel 262A was substituted for Channel 232A in the rule making.								
WGZZ.A	APP-N	232A	Waverly	AL	1.59	219.4	115.0	-113.41
Of no concern:								
Facility is being amended in this application.								
WIZB	LIC-Z	232C3	Abbeville	AL	141.59	172.0	142.0	-0.41
WJOX	LIC-N	233C0	Birmingham	AL	151.68	304.2	152.0	-0.32
WQSI	LIC	230C3	Union Springs	AL	45.69	200.7	42.0	3.69
WSTR	LIC	231C0	Smyrna	GA	159.65	42.4	152.0	7.65
AL5038	RSV	231C0	Smyrna	GA	159.66	42.3	152.0	7.66
WFDR-F	LIC	233A	Woodbury	GA	83.46	78.9	72.0	11.46
WLEL	LIC-N	232A	Ellaville	GA	129.23	112.5	115.0	14.23
WQZX	LIC	232A	Greenville	AL	136.28	230.0	115.0	21.28
AU7054	VAC	233A	Woodbury	GA	98.75	76.1	72.0	26.75
WFXE.A	APP	285A	Columbus	GA	49.13	122.3	10.0	39.13
WFXE.A	APP	285A	Columbus	GA	49.14	122.3	10.0	39.14
WFXE	LIC	285A	Columbus	GA	53.32	120.3	10.0	43.32
AL6675	VAC	286A	Rockford	AL	59.42	288.5	10.0	49.42
WDJC-F	LIC	229C0	Birmingham	AL	152.94	303.0	86.0	66.94

Latitude: 32-42-11 N
Longitude: 085-29-55 W
ERP: 4.20 kW
Channel: 232
Frequency: 94.3 MHz
AMSL Height: 338.61 m
Elevation: 234.0 m
HAAT: 120.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

WGZZ, Waverly, AL
Proposed Hypothetical 70 dBu
Coverage Contour

16.2 km radius
from site

Camp Hill

Waverly

WGZZ

Opelika

Loachapoka

Auburn

Notasulga



Exhibit E, Figure 2

Scale 1:200,000
0 2 4 6 km

**Engineering Statement
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WGZZ, Channel 232A, Waverly, Alabama**

Channel Spacing Study

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REFERENCE                                     DISPLAY DATES
32 44 11 N                                     CLASS = A      DATA 10-09-09
85 29 54 W                                     Current Spacings SEARCH 11-11-09
----- Channel 232 - 94.3 MHz -----

Call      Channel      Location      Dist      Azi      FCC      Margin
-----
AL9330  VAC   232A  Waverly      AL   3.24    167.6  115.0  -111.76
Of no concern:
Channel 262A was substituted for Channel 232A in the rule making.
WGZZ    RSV   232A  Waverly      AL   3.69    180.4  115.0  -111.31
WGZZ.A  APP-N 232A  Waverly      AL   5.03    191.9  115.0  -109.97
Of no concern:
Facility is being amended in this application.
WJOX    LIC-N 233C0 Birmingham  AL   149.66  303.0  152.0  -2.34
Of concern:
Protection afforded under Section 73.215.
WIZB     LIC-Z 232C3  Abbeville      AL  145.24      172.2  142.0    3.24
WSTR     LIC  231C0  Smyrna         GA  156.92       43.3  152.0    4.92
AL5038    RSV  231C0  Smyrna         GA  156.93       43.2  152.0    4.93
WQSI     LIC  230C3  Union Springs  AL   49.17      199.2   42.0    7.17
WFDR-F    LIC  233A   Woodbury       GA   82.81       81.4   72.0   10.81
WLEL     LIC-N 232A   Ellaville      GA  130.66      114.0  115.0   15.66
WQZX     LIC  232A   Greenville     AL  138.70      228.9  115.0   23.70
AU7054    VAC  233A   Woodbury       GA   97.91       78.3   72.0   25.91
WFXE.A    APP  285A   Columbus       GA   51.17      125.8   10.0   41.17
WFXE.A    APP  285A   Columbus       GA   51.18      125.8   10.0   41.18
WFXE     LIC  285A   Columbus       GA   55.25      123.6   10.0   45.25
AL6675    VAC  286A   Rockford       AL   58.39      285.0   10.0   48.39
WDJC-F    LIC  229C0  Birmingham     AL  150.99      301.8   86.0   64.99

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Latitude: 32-44-11 N
Longitude: 085-29-54W
ERP: 4.20 kW
Channel: 232
Frequency: 94.3 MHz
AMSL Height: 338.61 m
Elevation: 234.0 m
HAAT: 120.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

WGZZ, Waverly, AL
Proposed FCC Coverage Contours

F(50,50) 60 dBu

F(50,50) 70 dBu

WGZZ

Waverly

Lafayette

Lanett

Hugley

Valley

Dadeville

Camp Hill

Opoka

Auburn

Loachooka

Notasulga

Smiths



Exhibit E, Figure 4

Scale 1:307,777



**Engineering Statement
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Terrain/Contour Study

Reference Coordinates:

ERP: 4.2 kW

North Latitude: 32-44-11

West Longitude: 85-29-54

Azimuth °T.	Ave. Elev. 3 to 16 km (Meters AMSL)	FM - 2-6 Tables Effective Antenna Height (Meters AAT)	ERP (dBk)	F(50-50) Distance to 70 dBu Contour (km)	F(50-50) Distance to 60 dBu Contour (km)
0	230.3	108.3	6.232	15.3	27.1
5	230.8	107.8	6.232	15.3	27.0
10	237.0	101.6	6.232	14.8	26.3
15	236.8	101.8	6.232	14.8	26.3
20	244.8	93.8	6.232	14.2	25.3
25	252.1	86.5	6.232	13.6	24.4
30	249.9	88.7	6.232	13.8	24.7
35	241.7	96.9	6.232	14.4	25.7
40	237.4	101.2	6.232	14.7	26.3
45	234.0	104.6	6.232	15.0	26.7
50	233.8	104.8	6.232	15.0	26.7
55	232.2	106.4	6.232	15.2	26.9
60	227.6	111.0	6.232	15.5	27.4
65	225.3	113.3	6.232	15.7	27.7
70	229.6	109.0	6.232	15.4	27.2
75	239.6	99.0	6.232	14.6	26.0
80	242.1	96.5	6.232	14.4	25.7
85	239.1	99.5	6.232	14.6	26.1
90	236.1	102.5	6.232	14.9	26.4
95	236.1	102.5	6.232	14.9	26.4
100	239.5	99.1	6.232	14.6	26.0
105	237.7	100.9	6.232	14.7	26.2
110	232.5	106.1	6.232	15.1	26.8
115	233.5	105.1	6.232	15.1	26.7
120	233.6	105.0	6.232	15.0	26.7
125	228.2	110.4	6.232	15.5	27.3
130	224.8	113.8	6.232	15.7	27.7
135	223.5	115.1	6.232	15.8	27.8
140	220.9	117.7	6.232	16.0	28.1
145	217.6	121.0	6.232	16.3	28.4
150	216.0	122.6	6.232	16.4	28.6
155	215.5	123.1	6.232	16.4	28.6

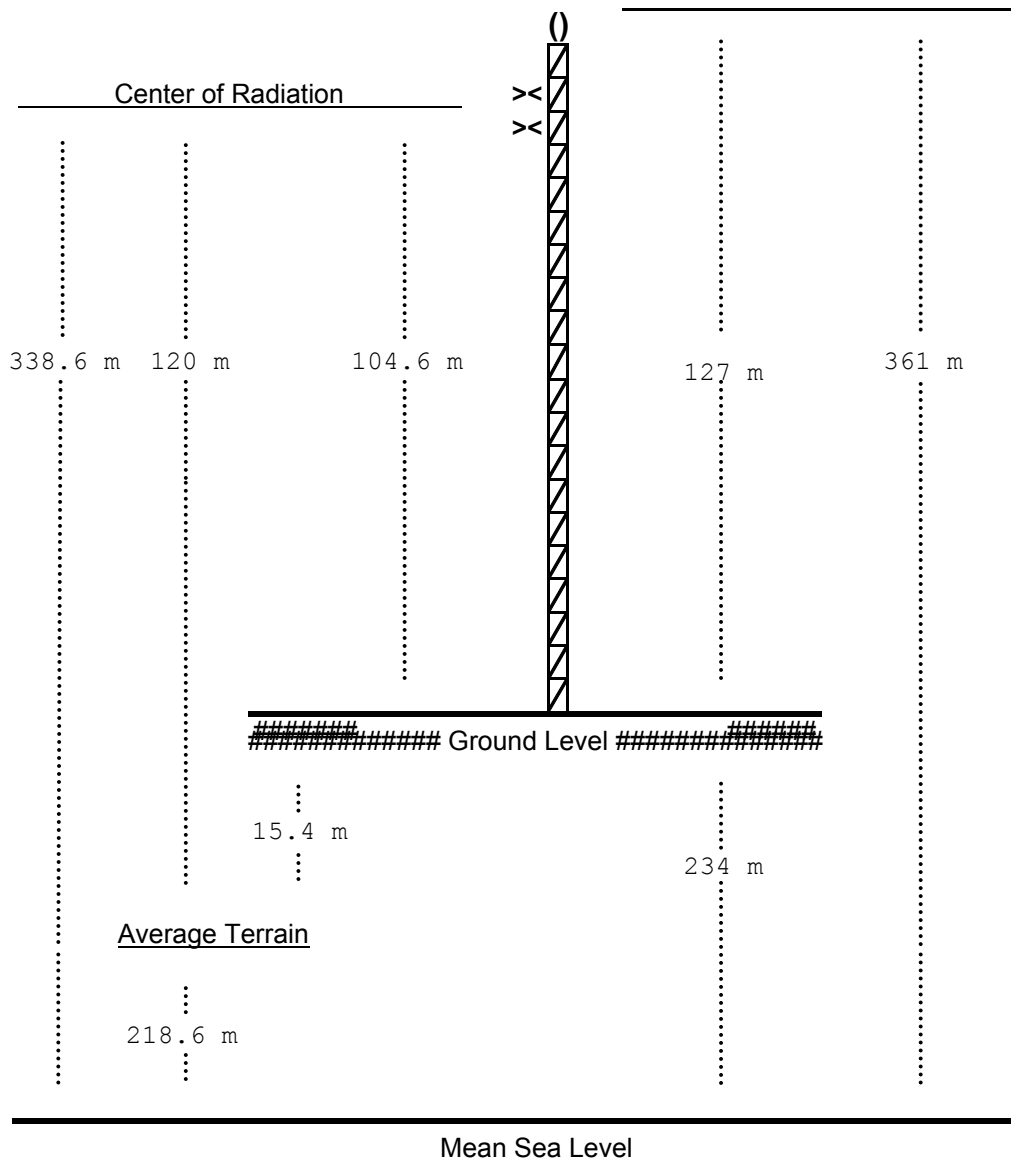
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ERP: 4.2 kW

Azimuth °T.	Ave. Elev. 3 to 16 km (Meters AMSL)	FM - 2-6 Tables Effective Antenna Height (Meters AAT)	ERP (dBk)	F(50-50) Distance to 70 dBu Contour (km)	F(50-50) Distance to 60 dBu Contour (km)
160	212.0	126.6	6.232	16.7	28.9
165	209.3	129.3	6.232	16.9	29.2
170	206.3	132.3	6.232	17.1	29.5
175	208.3	130.3	6.232	17.0	29.3
180	205.9	132.7	6.232	17.1	29.5
185	204.7	133.9	6.232	17.2	29.6
190	203.0	135.6	6.232	17.3	29.8
195	199.5	139.1	6.232	17.6	30.1
200	198.8	139.8	6.232	17.6	30.2
205	195.2	143.4	6.232	17.9	30.6
210	194.9	143.7	6.232	17.9	30.6
215	194.1	144.5	6.232	17.9	30.7
220	187.3	151.3	6.232	18.4	31.4
225	187.6	151.0	6.232	18.4	31.3
230	193.3	145.3	6.232	18.0	30.8
235	194.2	144.4	6.232	17.9	30.7
240	196.1	142.5	6.232	17.8	30.5
245	201.4	137.2	6.232	17.4	30.0
250	209.6	129.0	6.232	16.9	29.2
255	213.4	125.2	6.232	16.6	28.8
260	212.5	126.1	6.232	16.6	28.9
265	214.7	123.9	6.232	16.5	28.7
270	212.2	126.4	6.232	16.7	28.9
275	208.7	129.9	6.232	16.9	29.2
280	207.4	131.2	6.232	17.0	29.4
285	197.9	140.7	6.232	17.7	30.3
290	201.7	136.9	6.232	17.4	29.9
295	211.0	127.6	6.232	16.8	29.0
300	213.7	124.9	6.232	16.6	28.8
305	217.6	121.0	6.232	16.3	28.4
310	216.0	122.6	6.232	16.4	28.6
315	219.3	119.3	6.232	16.2	28.3
320	217.9	120.7	6.232	16.3	28.4
325	220.0	118.6	6.232	16.1	28.2
330	225.4	113.2	6.232	15.7	27.6
335	230.0	108.6	6.232	15.3	27.1
340	228.7	109.9	6.232	15.4	27.3
345	231.2	107.4	6.232	15.2	27.0
350	230.4	108.2	6.232	15.3	27.1
355	227.6	111.0	6.232	15.5	27.4

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Vertical Sketch



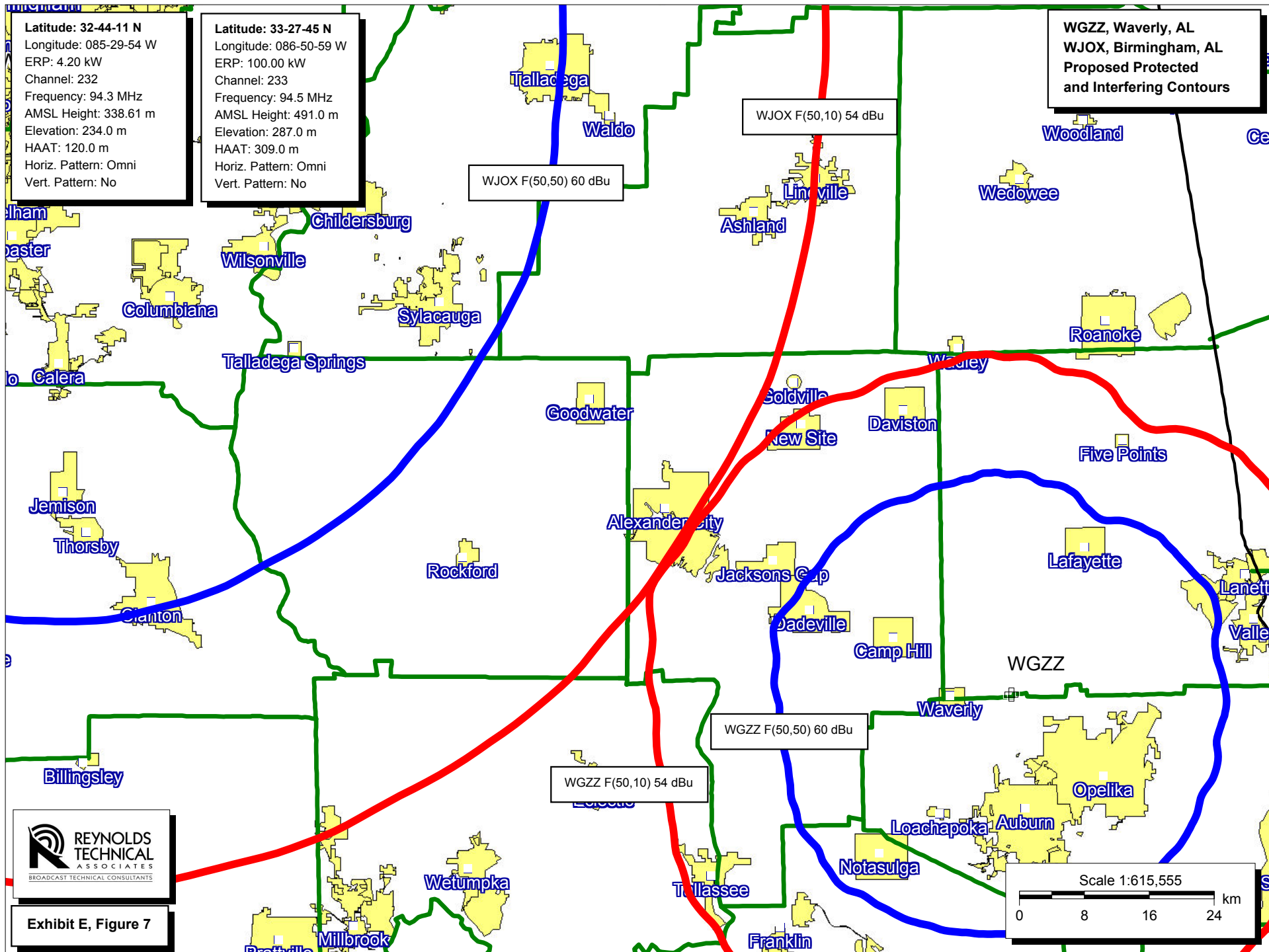
Proposed Location: 32° 44' 11" N. Lat.

85° 29' 54" W. Long. [NAD27]

NOT DRAWN TO SCALE

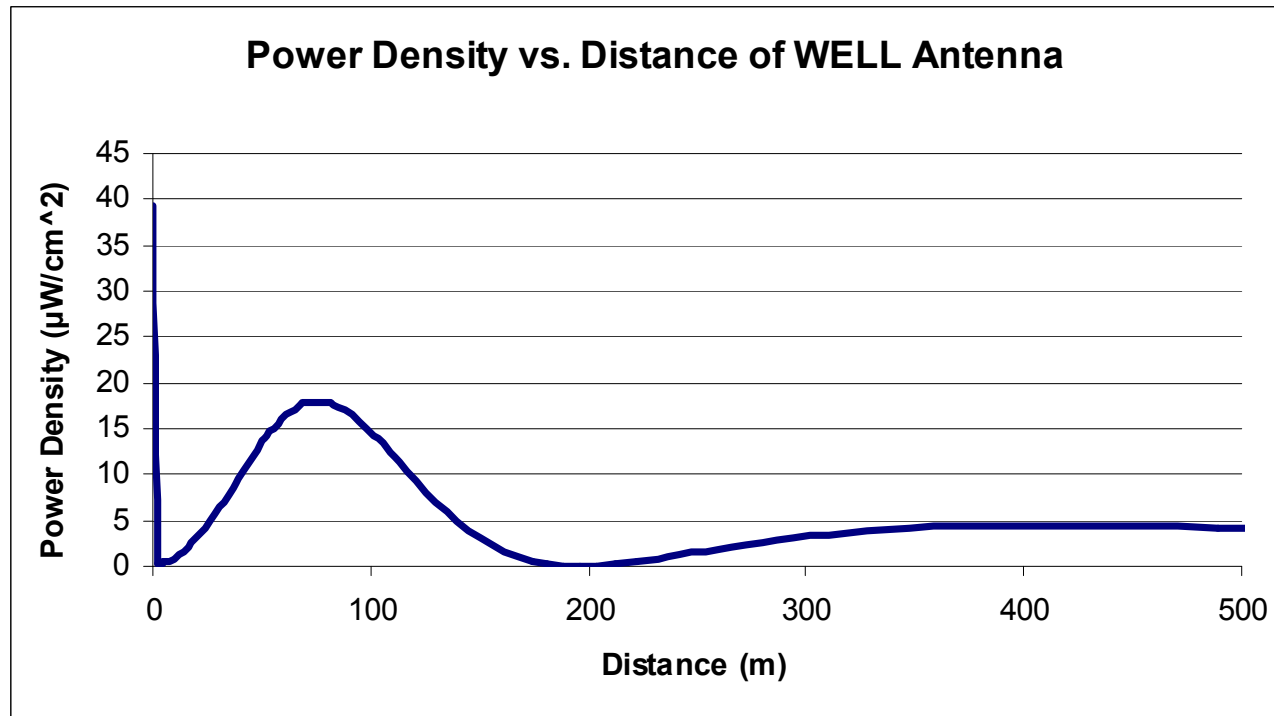
Proposed Antenna: 2 elements

ASRN: 1257731



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Human Exposure to Radiofrequency Radiation Study



WELL Antenna Model: Jampro JFVD2 (2-bay, 8-element, antenna)
WELL Antenna AGL: 115 meters

ERP: 60 kW (Vertical Only)

The maximum power density of WELL was found to be $39.4 \mu\text{W}/\text{cm}^2$ at the base of the tower, or 3.94% of the maximum permissible exposure. Combined with WGZZ's power density from RF Worksheet #1 (2.67% of maximum permissible exposure), the total exposure level is 6.61% of the maximum permissible exposure.